

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 60390-1A/JPW/GJG/JBC	Serial No. Not Yet Known
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: Arlindo Castelhano et al.	
				Filing Date Herewith	Group

U.S. PATENT DOCUMENTS										
Examiner Initial		Document Number			Date	Name	Class	Subclass	Filing Date if Appropriate	
A		3	0	3	7	9	8	0	6/5/62	Hitchings, G.H. et al.;
		3	9	1	0	9	1	3	10/7/75	Kim, et al.;
		5	2	0	8	2	4	0	5/4/93	Peet, et al.;
		5	4	0	9	9	3	0	4/25/95	Spada, A.P. et al.;
		5	5	1	6	8	9	4	5/14/96	Reppert, S.M.;
		5	5	8	0	8	7	0	12/3/96	Barker, A.J. et al.;
		5	6	3	9	9	1	3	6/17/97	Lidor et al.;
		5	6	4	6	1	5	6	7/8/97	Jacobson et al.;
		5	6	8	1	9	4	1	10/28/97	Cook, P.D. et al.;
		5	7	1	0	1	5	8	1/20/98	Myers, M.R. et al.;
		5	7	1	4	4	9	3	2/3/98	Myers, M.R. et al.;
		5	7	2	1	2	3	7	2/24/98	Myers, M.R. et al.;
		5	7	4	7	4	9	8	5/5/98	Schnur, R.C. et al.;
		5	7	8	0	4	5	0	7/14/98	Shade, D.L. et al.;
		5	7	8	0	4	8	1	7/14/98	Jacobson et al.;
		5	8	3	4	6	0	9	11/10/98	Horne, D.A. et al.;
		5	8	7	7	2	1	8	3/2/99	Herzig et al.;
		5	8	7	7	2	2	1	3/2/99	Cohen et al.;
		5	8	8	0	1	5	9	3/9/99	Herzig et al.;
		5	9	1	4	3	4	9	6/22/99	Cohen et al.;
		5	9	6	2	4	5	8	10/5/99	Lohmann et al.;
		5	9	9	4	4	0	8	11/30/99	Cohen et al.;
A		6	1	0	3	8	9	9	8/15/00	Horne, D.A. et al.

FOREIGN PATENT DOCUMENTS											
		Document Number			Date	Country	Class	Subclass	Translation		
									Yes	No	
A		WO	9	3	2	0	0	7	8	10/14/93	PCT;
M		WO	9	4	1	3	6	7	6	6/23/94	PCT;
D		WO	9	4	1	7	0	9	0	8/4/94	PCT;

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									

EXAMINER	A. Horne, Jr.	DATE CONSIDERED	3/3/05
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FOREIGN PATENT DOCUMENTS										
<i>ANL</i>	WO	9	4	1	9	3	4	9	9/1/94	PCT;
	WO	9	4	2	4	1	3	6	10/27/94	PCT;
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	WO	9	7	3	3	8	7	9	9/18/97	PCT;
	WO	9	8	0	7	7	2	6	2/26/98	PCT;
	WO	9	8	0	8	3	8	2	3/5/98	PCT;
	WO	9	8	2	2	4	6	5	5/28/98	PCT;
	WO	9	8	2	9	3	9	7	7/9/98	PCT;
	WO	9	8	5	7	6	5	1	12/23/98	PCT;
	WO	9	9	0	6	0	5	3	2/11/99	PCT;
	WO	9	9	3	3	8	1	5	7/8/99	PCT;
	WO	9	9	4	2	0	9	3	8/26/99	PCT;
	WO	9	9	6	2	5	1	8	12/9/99	PCT;
	WO	0	1	3	9	7	7	7	6/7/01	PCT (Exhibit 1);
	WO	02	0	5	7	2	6	7	7/25/02	PCT;
	WO	03	0	4	8	1	2	0	6/12/03	PCT (Exhibit 2);
	EP	0	3	2	2	2	4	2	6/28/89	EPO;
	EP	0	5	1	4	5	4	0	11/25/92	EPO;
	EP	0	6	8	2	0	2	7	11/15/95	EPO;
<i>ANL</i>	EP	0	7	2	9	7	5	8	9/4/96	EPO;
	EP	0	7	7	3	0	2	3	5/14/97	EPO;
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)										
EXAMINER	<i>Aaron Bryer</i>			DATE CONSIDERED		3/3/05				
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
<i>Anf</i>	GB	0 9 1 5 3 0 3	1/9/63	Great Britain;			Yes
	DE	3 1 4 5 2 8 7	5/19/93	Germany;			No
	IN	0 1 5 7 2 8 0	2/22/86	India;			
	JP	09 2 9 1 0 8 9	5/11/999	Japan;			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>Anf</i>	Abbracchio M., et al., (1999) "Brain Adenosine Receptors as Targets for Therapeutic Intervention in Neurodegenerative Diseases", <u>Ann. NY. Acad. Sci.</u> , 890: 79-92;						
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	Barrett, R.J. (1996) "Realizing the Potential of Adenosine-Receptor-Based Therapeutics" <u>Proc. West. Pharmacol. Soc.</u> 39: 61-66;						
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	Campbell, R.M. et al., "Selective A ₁ -Adenosine Receptor Antagonists Identified Using Yeast <i>Saccharomyces Cerevisiae</i> Functional Assays" <u>Bioorg. & Med. Chem. Lett.</u> (1999) 9(16): 2413-2418;						
	Chen, Y. L., et al., "Synthesis and Oral Efficacy of a 4-(Butylethylamino)pyrrolo[2,3-d]pyrimidine: A Centrally Active Corticotropin-Releasing Factor Receptor Antagonist", (1997) <u>J. Med. Chem.</u> , 40: 1749-1754;						
	Cummings, J. et al., "Antagonism of the Cardiodepressant Effects of Adenosine during Acute Hypoxia" <u>Academic Emergency Medicine</u> (2000), 7(8): 618-624;						
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	Dhainaut, A. et al., "New Purines and Purine Analogs as Modulators of Multidrug Resistance" <u>J. Med. Chem.</u> (1996) 39: 4099-4108;						
	Dooley, M.J. et al., "Theoretical Structure-Activity Studies of Adenosine A1 Ligands: Requirements for Receptor Affinity" <u>Bioorg. Med. Chem.</u> (1996), 4(6): 923-934;						
	Feoktistove, I. et al., (1998) "Adenosine A _{2B} receptors: a novel therapeutic target in asthma?", <u>TiPS</u> 19: 148-153;						
<i>Anf</i>	Gao, E. et al., "Adenosine A1 Receptor Antagonist Prolongs Survival in the Hypoxic Rat" <u>J. Cardiovascular Pharm.</u> (2001) 38: 384-394;						
EXAMINER	<i>Altan</i>			DATE CONSIDERED	<i>3/3/05</i>		
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<p>Hart, H. et al., <u>Organic Chemistry, A Short Course</u>, (Houghton Mifflin: 1995), p. 121;</p> <p><u>Iwamura, H. et al. (1996) "Quantitative Aspects of the Receptor Binding of Cytokinin Agonists and Antagonists" J. Med. Chem., 26: 838-844;</u></p> <p>Jacobson K.A., et al., (1998) "Adenosine A3 receptors: novel ligands and paradoxical effects", <u>TiPS</u>, 19:184-191;</p> <p>Jacobson K.A., et al., (1997) "Pharmacological Characterization of Novel A3 Adenosine Receptor-selective Antagonists", <u>Neuropharmacology</u>, 36 (9): 1157-1165;</p> <p>Jorgensen, A. et al. (1985) "Synthesis of 7H-Pyrrolo[2,3-d]pyrimidin-4-amines" <u>Liebigs, Ann. Chem.</u> Pages 142-148;</p> <p>Kaiser, S.M. and R.J. Quinn (1999) "Adenosine receptors as potential therapeutic targets" <u>Drug Discovery Today</u> 4(12): 542-551;</p> <p>Kiichiro, K. et al. "Synthesis of pyrazinecarboxylic acid derivs. - (II) derivs. of 3-aminopyrazinecarboxylic acid" (1961) <u>Yakugaku Zasshi</u> 81: 1650-1653;</p> <p>Lee T., et al., (1999) "Protective effects of renal ischemic preconditioning and adenosine pretreatment: role of A1 and A3 receptors", <u>72nd Scientific Sessions of the American Heart Association</u>, Atlanta, GA, p.197;</p> <p>Lee T., et al., (2000) "Protective effects of renal ischemic preconditioning and adenosine pretreatment: role of A1 and A3 receptors", <u>Am. J. Physiol. Renal Physiol.</u>, 278: F380-F387;</p> <p>Marx, D. et al. (2001) "Therapy of Bronchial Asthma with Adenosine Receptor Agonists or Antagonists" <u>Drug News Perspect.</u> 14(2): 89-100;</p> <p>Mautner, H.G., (1961) "Potential Deoxyribonucleic Acid Cross-linking Agents. 8,8'-Bispurines", <u>J. Org. Chem.</u> 26(6):1914-1917;</p> <p><u>Muller, C. E. et al. (1990) "7-Deaza-2-phenyladenines: Structure-Activity Relationships of Potent A1 Selective Adenosine Receptor Antagonists" J. Med. Chem., 33: 2822-2828;</u></p>							
EXAMINER	A. H. P. Jr.		DATE CONSIDERED	3/3/05			
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FOREIGN PATENT DOCUMENTS						
	Document Number	Date	Country	Class	Subclass	Translation
						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
<i>DW</i>	Muller, C.E. et al. (1996) "Chiral Pyrrolo[2,3-d]pyrimidine and Pyrimido[4,5-b]indole Derivatives: Structure-Activity Relationships of Potent, Highly Stereoselective A ₁ -Adenosine Receptor Antagonists" <i>J. Med. Chem.</i> , 39: 2482-2491;					
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	Nyce, J. W. and Metzger, J.W., (1997) "DNA antisense therapy for asthma in an animal model", <i>Nature</i> , 385: 721-725;					
	Pichler, H. et al. "Synthese von 7-unsubstituierten 7H-Pyrrolo[2,3-d] pyrimidinen", (1986) <i>Liebigs Ann. Chemie.</i> , 9: 1485-1505;					
	Seela, F., and Lupke, U., "Mannich-Reaktion am 2-Amino-3,7-dihydropyrrolo [2,3-d] pyrimidin-4-on, dem Chromophor des Ribonucleosids "Q" (1977) <i>Chem. Ber.</i> 110: 1462-1469;					
	Shan, Daxian et al., <i>J. Pharmaceutical Sci.</i> , (1997) 86:765-767;					
	Szkotak, A.J. et al., "Regulation of K ⁺ current in human airway epithelial cells by exogenous and autocrine adenosine" <i>Am. J. Physiol. Cell Physiol.</i> (2001), 281: C1991-C2002;					
	Venugopalan, B. et al. (1998) "Synthesis of 6,7-Dimethoxyxypyrimido[4,5-b]-indoles as Potential Antihypertensive Agents" <i>J. Heterocyclic Chem.</i> , 25: 1633-1639;					
	Welch, W.J. "Adenosine type 1 receptor antagonists in fluid retaining disorders" <i>Expert Opin. Investig. Drugs</i> (2002), 11(11): 1553-1562;					
<i>AWL</i>	West, R. A. et al. (1961) "2-Alkyl(aryl)-and 2,7-Dimethyl-4-substituted Aminopyrrolo[2,3-d]pyrimidines" <i>J. Org. Chem.</i> , 26: 3809-3812;					
EXAMINER <i>A. Hall</i>	DATE CONSIDERED <i>3/3/05</i>					
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<i>ANP</i>		20	02	00	28	7	8	2	3/7/02	Castelhano et al. (Exhibit 3, claims only);			
		20	02	00	58	6	6	7	5/16/02	Castelhano et al. (Exhibit 4, claims only);			
		20	03	00	36	5	4	5	2/20/03	Castelhano et al. (Exhibit 5, claims only);			
		20	02	00	94	9	7	4	4/17/03	Castelhano et al. (Exhibit 6, claims only);			
		20	03	00	73	7	0	8	4/17/03	Castelhano et al. (Exhibit 7, claims only);			
		09	4	5	4	0	7	4	12/2/99	Castelhano et al. (Exhibit 8, claims only);			
		09	4	5	4	0	7	5	12/2/99	Castelhano et al. (Exhibit 9, claims only);			
		10	0	1	0	0	9	2	11/30/01	Castelhano et al.;			
<i>ANP</i>		20	03	00	45	5	3	6	3/6/03	Castelhano et al. (Exhibit 10, claims only);			
FOREIGN PATENT DOCUMENTS													
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										Yes	No		
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<i>ANP</i>		Williams, E. F. et al., "Nucleoside transport sites in a cultured human retinal cell line established by SV-40 T antigen gene", (1994) <u>Current Eye Research</u> , 13: 109-118;											
		Wolff, Manfred E., <u>Burger's Medicinal Chemistry and Drug Discovery</u> , 5 th ed., Volume I: Principles and Practice, John Wiley & Sons, 1995, pages 975-977;											
		Woods, C. L. and Blazynski, C. (1991) "Characterization of Adenosine A ₁ -receptor Binding Sites in Bovine Retinal Membranes", <u>Experimental Eye Research</u> , 53: 325-331; and											
<i>ANP</i>		Zhao, Z. et al., "Bioactivation of 6,7-Dimethyl-2,4-di-1-pyrrolidinyl-7H-pyrrolo[2,3-d]pyrimidine (U-89843) to Reactive Intermediates that Bind Covalently to Macromolecules and Produce Genotoxicity" <u>Chem. Res. Toxicol.</u> , (1996) 9: 1230-1239.											
EXAMINER	<i>Altan Bryo</i>	DATE CONSIDERED				<i>3/3/05</i>							
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